

RAILWAY ENGINEERING

AND MAINTENANCE OF WAY



VOL. III.

CHICAGO

MAY, 1907

NEW YORK

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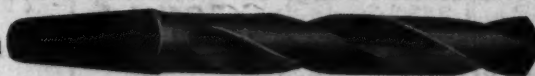
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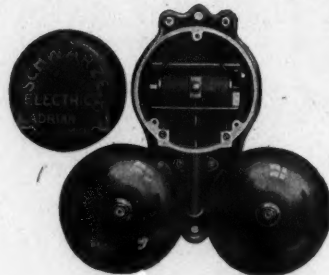
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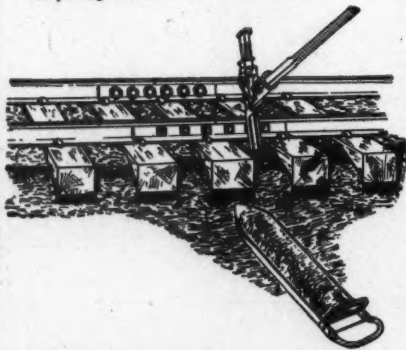
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FIG. 1—Showing ballast removed from end of ties to be raised,
track jacked up and device in position to receive ballast
for placing under tie.



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antee that ev-
ery particle of
ballast will re-
main under tie
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chine will
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FIG. 2—Showing pan removed, ballast under tie, and cleaner
ready to be withdrawn.



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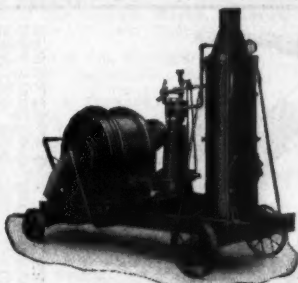
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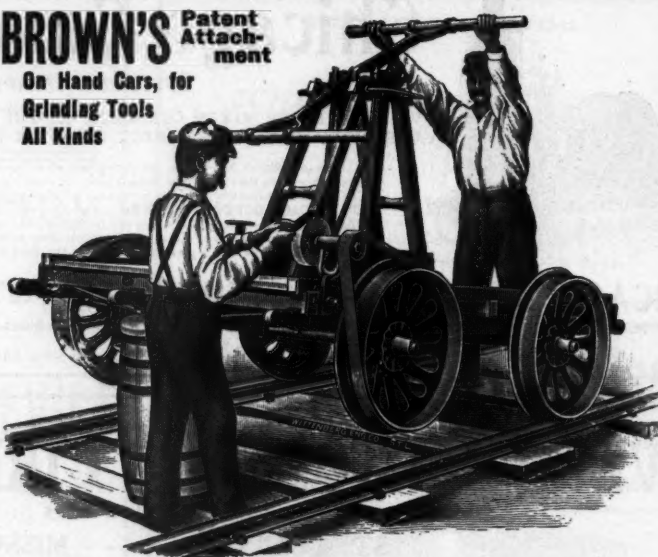
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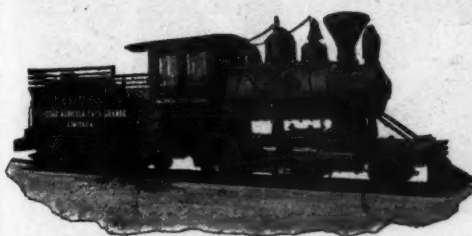
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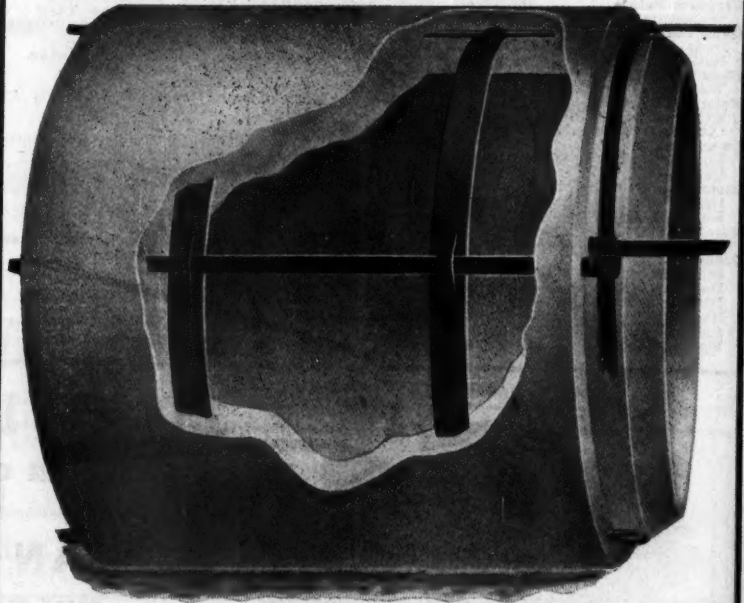
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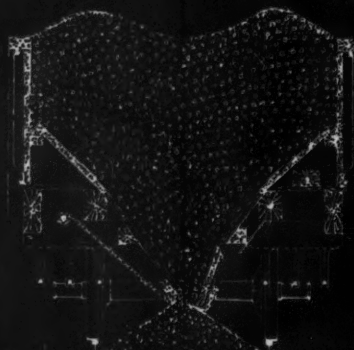
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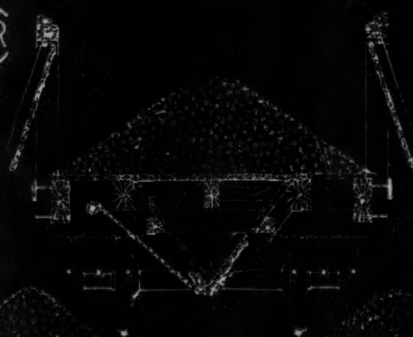
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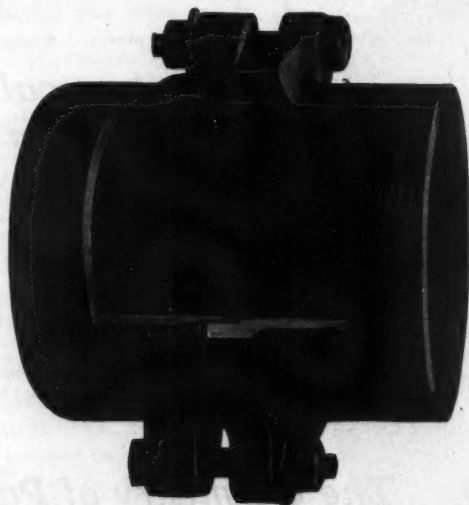


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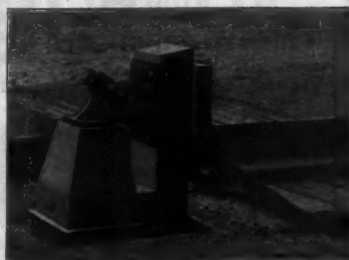
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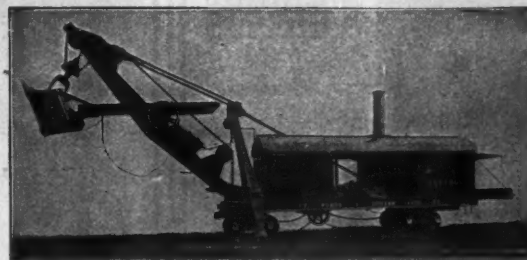
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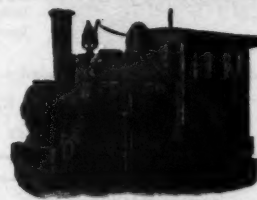
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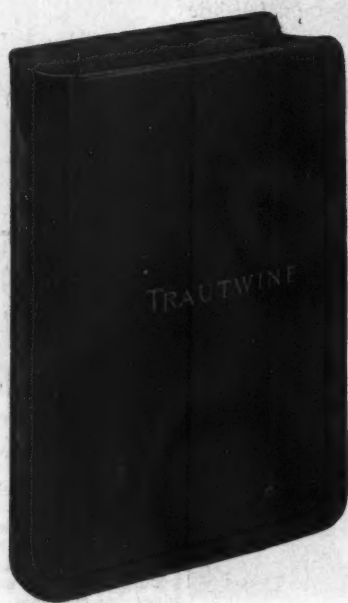
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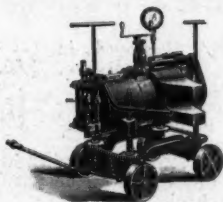
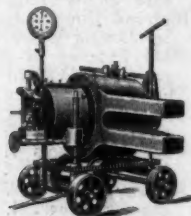
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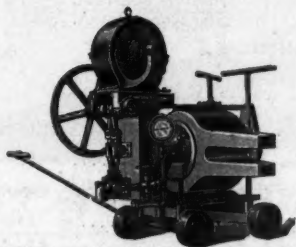
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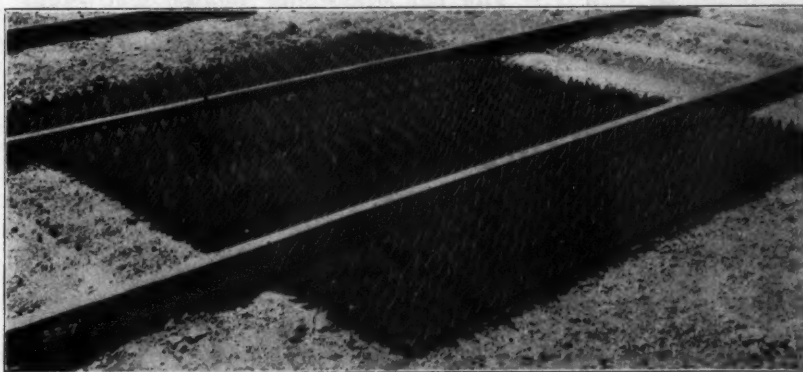
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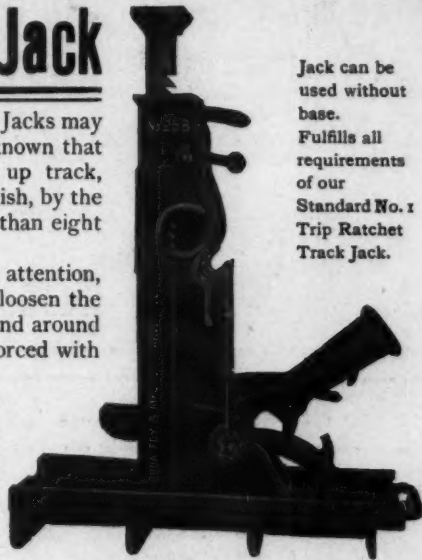
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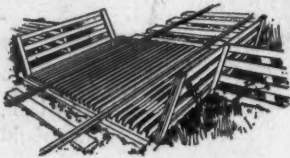
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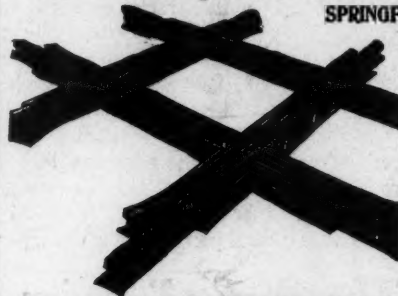
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